CCC FAC SAMBLESC

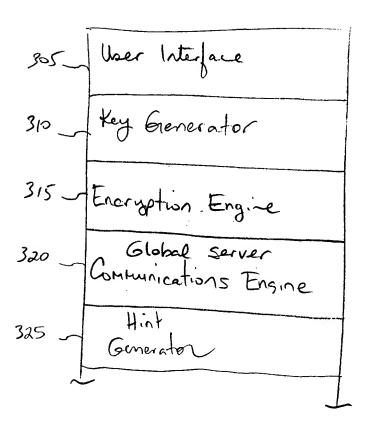


FIG. 3 (Client Encryption Downloadable)

FIG. W (client Decryption Downloadable)

DOWYESTE DELOCA

FIG. 5 (Server Decryption Module) Start

Local client requests storage
of data on the scool somethod

downloadable to local client

Local client executes
ancryption downloadable

Local client sends encrypted
dota and hint to slobal server

end

end

F16, 6 (Encryption)

Start Request Password Perform one-way hash of password to generate first secret Perform one-way hash of first secret to senerate second secret Generate hint Perform one-way hash using hint and first secret to severate index ferform one-way hash using second secret and index to severate key 740 - Encrypt data

(630 (Encryption Downboodakle)

FIG. 7

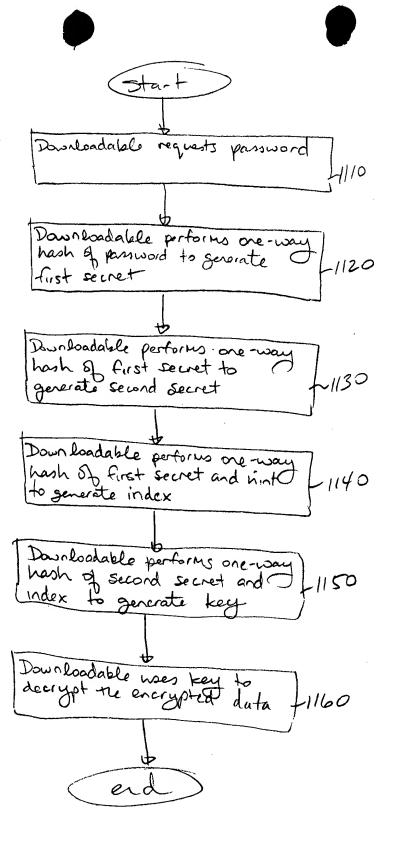
S(Decryption) Start Remote client nequests access to data 920 Server-side If client-side or Client-side server-side decryption Global server sends decryption downloadable, hint and encrypted data to remote client Global server executes decryption algorithm 1 930 find find from the first for the time that Remote dient executes decryption down Doadable 860 Remote client g u o accesses data end

Server Decryption

Start Global Server serds server decryption down hadable and nint to venute dient Client executes the server decryption down loadable to generate and send index to geobal server Global Server performs one-way 2nd secret and index to generate kay Global sener uses key to decrypt the requested encrypted data Global server sends docrypted data to 950 The remote client end

Sta-t Downloadable requests password 1010 Downloadable performs one-way hash
of password to compute first secret Downloadable performs one-way hash of first secret and hint to severate index Downloadable sands index to global Selver

F16.10



860

(Renote

Decryption Downloadable)

